

MMM		MMM	AAAAAAAAAA	CCCCCCCCCCCC	RRRRRRRRRRRR	0000000000		
MMM		MMM	AAAAAAAAAA	CCCCCCCCCCCC	RRRRRRRRRRRR	0000000000		
MMM		MMM	AAAAAAAAAA	CCCCCCCCCCCC	RRRRRRRRRRRR	0000000000		
MMMMMMM	MMMMMMM	AAA	AAA	CCC	RRR	RRR	000	000
MMMMMMM	MMMMMMM	AAA	AAA	CCC	RRR	RRR	000	000
MMMMMMM	MMMMMMM	AAA	AAA	CCC	RRR	RRR	000	000
MMM	MMM	MMM	AAA	AAA	CCC	RRR	RRR	000
MMM	MMM	MMM	AAA	AAA	CCC	RRR	RRR	000
MMM	MMM	MMM	AAA	AAA	CCC	RRR	RRR	000
MMM		MMM	AAA	AAA	CCC	RRRRRRRRRRRR	000	000
MMM		MMM	AAA	AAA	CCC	RRRRRRRRRRRR	000	000
MMM		MMM	AAA	AAA	CCC	RRRRRRRRRRRR	000	000
MMM		MMM	AAAAAAAAAAAAAAAA	CCC	RRR	RRR	000	000
MMM		MMM	AAAAAAAAAAAAAAAA	CCC	RRR	RRR	000	000
MMM		MMM	AAAAAAAAAAAAAAAA	CCC	RRR	RRR	000	000
MMM		MMM	AAA	AAA	CCC	RRR	RRR	000
MMM		MMM	AAA	AAA	CCC	RRR	RRR	000
MMM		MMM	AAA	AAA	CCC	RRR	RRR	000
MMM		MMM	AAA	AAA	CCCCCCCCCCCC	RRR	RRR	0000000000
MMM		MMM	AAA	AAA	CCCCCCCCCCCC	RRR	RRR	0000000000
MMM		MMM	AAA	AAA	CCCCCCCCCCCC	RRR	RRR	0000000000

MA
VO[illegible]

(2) 75 DECLARATIONS

```
0000 1      .TITLE  MAC$IODAT
0000 2      .IDENT  'V04-000'
0000 3
0000 4
0000 5      *****
0000 6      *
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0000 23     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24     *
0000 25     *
0000 26     *****
0000 27
0000 28
0000 29     ++
0000 30     FACILITY:      VAX MACRO ASSEMBLER OBJECT LIBRARY
0000 31
0000 32     ABSTRACT:
0000 33
0000 34     The VAX-11 MACRO assembler translates MACRO-32 source code into object
0000 35     modules for input to the VAX-11 LINKER.
0000 36
0000 37     ENVIRONMENT:  USER MODE
0000 38
0000 39     AUTHOR: Benn Schreiber, CREATION DATE: 21-AUG-78
0000 40
0000 41     MODIFIED BY:
0000 42
0000 43     V03-003 RRB0030 Rowland R. Bradley      06-Jul-1984
0000 44     Add resultant and expanded string to MAC$OBJECT_NAM
0000 45     and MAC$LIST_NAM (same string) to properly signal
0000 46     errors when it is not possible to create the output
0000 47     file. Add MAC$OBJ_NAM_BUF AND MAC$LIS_NAM_BUF for
0000 48     proper defaulting.
0000 49
0000 50     V03-002 RRB0027 Rowland R. Bradley      29-May-1984
0000 51     Add data structures for LIB$FIND_FILE. Attempted to
0000 52     follow naming convention adopted in this language
0000 53     processor.
0000 54
0000 55     V03-001 MTR0026      Mike Rhodes      23-Feb-1983
0000 56     Add MAC$GB_INPNAMLEN to remember the last input file
0000 57     expanded name string length.
```


0000 58 :
0000 59 :
0000 60 :
0000 61 :
0000 62 :
0000 63 :
0000 64 :
0000 65 :
0000 66 :
0000 67 :
0000 68 :
0000 69 :
0000 70 :
0000 71 :
0000 72 :
0000 73 :--

V02.09 MTR0001 Mike Rhodes 9-Nov-1981
Modify the use of the default system library file name.

V02.08 CNH0039 Chris Hume 7-Oct-1980
Closed off a few remaining object record length checking
errors. (OHDOUT.MAR 02.02, P2ACT1.MAR 02.09)

V01.07 RN0029 R. Newland 5-Feb-1980
Use OFP (output file parse) in file-options to
form object and listing file specifications.

V01.06 RN0011 R. Newland 11-Sep-1979
New librarian support

DECLARATIONS

```
0000 75      .SBTTL  DECLARATIONS
0000 76      :
0000 77      : INCLUDE FILES:
0000 78      :
0000 79      :
0000 80      :
0000 81      : MACROS:
0000 82      :
0000 83      :
0000 84      $MAC_GENVALDEF      ;DEFINE VAX-11 MACRO GENERAL SYMBOLS
0000 85      $MAC_MLFDEF        ; Define MLF offsets
0177 86      :
0177 87      :
0177 88      : EQUATED SYMBOLS:
0177 89      :
0177 90      :
00000034 0177 91 WARN_LIMIT = 52.      ; Number of characters remaining in the object
0177 92      :                      ; record at which the record must be output.
0177 93      :
0177 94      :
0177 95      : OWN STORAGE:
0177 96      :
0177 97      :
00000000 0000 98      .PSECT  MAC$IODAT_DATA,NOEXE, LONG
0000 99      :
0000 100     MAC$TERM_FAB::      ;FAB FOR TERMINAL OUTPUT
0000 101     $FAB      FNM=<SYSSERROR>,-
0000 102     FAC=<PUT>,-
0000 103     RAT=<CR>
0050 104     :
0050 105     MAC$TERM_RAB::      ;RAB FOR TERMINAL OUTPUT
0050 106     $RAB      FAB=MAC$TERM_FAB
0094 107     :
0094 108     MAC$INPUT_RAB::      ;RAB FOR READING INPUT FILE
0094 109     $RAB      UBF=MAC$AB_LINEBF,-
0094 110     USZ=IN$K_BUF$IZ,-
0094 111     ROP=<RAH>,-
0094 112     MBC=20,-
0094 113     MBF=20
00D8 114     :
00D8 115     MAC$INPUT_XAB::      ;XAB TO GET INPUT CREATION DATE
00D8 116     $XABDAT
0104 117     :
0104 118     MAC$INPUT_RLFNM::
0104 119     $NAM      -
0104 120     RSA=MAC$INP_NAM_BUF,-
0104 121     ESA=MAC$INP_NAM_BUF,-
0104 122     ESS=NAM$C_MAXRSS
0164 123     :
00000263 0164 124 MAC$INP_NAM_BUF::
0164 125     .BLKB      NAM$C_MAXRSS
0263 126     MAC$GB_INPNAMLEN::      ;LENGTH OF LAST STRING WRITTEN INTO
00 0263 127     .BYTE      0      ;MAC$INP_NAM_BUF.
0264 128     :
0264 129     .ALIGN      LONG
0264 130     MAC$LISTPT_RLFNM::      ;RELATED FILE NAM BLOCK FOR DEFAULTING
0264 131     :                      ;(THIS IS THE RESULT OF FIRST SOURCE FILE)
```


DECLARATIONS

```
0264 132          $NAM          -
0264 133          RSA=MAC$NIS_NAM_BUF,-
0264 134          ESA=MAC$NIS_NAM_BUF,-
0264 135          ESS=NAM$C_MAXRSS
02C4 136
02C4 137          .ALIGN LONG
02C4 138 MAC$OBJPT_RLFNM::
02C4 139
02C4 140          $NAM          -
02C4 141          RSA=MAC$OBJ_NAM_BUF,-
02C4 142          ESA=MAC$OBJ_NAM_BUF,-
02C4 143          ESS=NAM$C_MAXRSS
0324 144
0324 145 MAC$OBJ_NAM_BUF::
00000423 0324 146          .BLRB NAM$C_MAXRSS
0423 147
0423 148          .ALIGN LONG
0424 149
0424 150 MAC$NIS_NAM_BUF::
00000523 0424 151          .BLRB NAM$C_MAXRSS
0523 152
0523 153          .ALIGN LONG
0524 154
0524 155 MAC$RES_NAM_BUF::
00000623 0524 156          .BLRB NAM$C_MAXRSS          ;RESULTANT STRING BUFFER
0623 157
0623 158          .ALIGN LONG
0624 159
0624 160 MAC$OBJECT_FAB::          ;FAB FOR OBJECT FILE
0624 161          $FAB          DNM=<.OBJ> ,FAC=<PUT>,-
0624 162          FOP=<TEF, OFP>,-          ; TRUNCATE TO EOF
0624 163          DEQ=20,-
0624 164          NAM=MAC$OBJECT_NAM
0674 165 MAC$OBJECT_RAB::          ;RAB FOR WRITING OBJECT FILE
0674 166          $RAB          RBF=MAC$AB_OBJBUF,-
0674 167          ROP=<WBH>,-
0674 168          RSZ=OBJ$K_BUFSIZ,-
0674 169          FAB=MAC$OBJECT_FAB,-
0674 170          MBC=20,-
0674 171          MBF=20
06B8 172 MAC$OBJECT_NAM::          ;NAM BLOCK FOR OBJECT FILE
06B8 173          $NAM          -
06B8 174          RLF=MAC$OBJPT_RLFNM,-          ;RELATED FILENAME BLOCK (FIRST INPUT FILE)
06B8 175          RSA=MAC$RES_NAM_BUF,-
06B8 176          ESA=MAC$RES_NAM_BUF,-
06B8 177          ESS=NAM$C_MAXRSS
0718 178
0718 179 MAC$LIST_FAB::          ;FAB FOR WRITING LISTING FILE
0718 180          $FAB          DNM=<.LIS> ,FAC=<PUT>,-
0718 181          RAT=<CR>,-
0718 182          FOP=<TEF, OFP>,-          ; TRUNCATE TO END OF FILE
0718 183          DEQ=80,-          ;DEFAULT EXTEND QUANTITY
0718 184          NAM=MAC$LIST_NAM
0768 185 MAC$LIST_RAB::
0768 186          $RAB          RBF=MAC$AB_LST_END,-
0768 187          FAB=MAC$LIST_FAB,-
0768 188          ROP=<WBH>,-
```

DECLARATIONS

```
0768 189 MBC=20,-
0768 190 MBF=20
07AC 191 MAC$LIST_NAM:: ;NAM BLOCK FOR LISTING FILE
07AC 192 $NAM -
07AC 193 RLF=MAC$LISTPT_RLFNM,- ;RELATED FILENAME BLOCK
07AC 194 RSA=MAC$RES_NAM_BUF,-
07AC 195 ESA=MAC$RES_NAM_BUF,-
07AC 196 ESS=NAM$C_MAXRSS
080C 197
080C 198 MAC$SYSLIB_MLF::
00000824 080C 199 .BLKB <MLF$K_BLKSIZ-NAM$C_BLN-MLF$K_RSFNLN>
0824 200 $NAM ; NAM block for system library
00000983 0884 201 .BLKB MLF$K_RSFNLN
0983 202 ;
0983 203 .ALIGN LONG
0984 204 ;
0984 205 MAC$SYSLIB_FNM:: ; System library file name descriptor
45 4C 52 41 54 53 0000098C'010E0000' 0984 206 .ASCID /STARLET/
54 0992
0993 207 ;
0993 208 MAC$SYSLIB_DFN:: ; Default Syatem library file name desc
49 4C 24 53 59 53 0000099B'010E0000' 0993 209 .ASCID /SYSS$LIBRARY:.MLB/
42 4C 4D 2E 3A 59 52 41 52 42 09A1
09AB 210 ;
09AB 211 MAC$MLB_DEFNAM:: ; Default name string for library files
42 4C 4D 2E 000009B3'010E0000' 09AB 212 .ASCID /.MLB/
09B7 213 ;
09B7 214 MAC$INP_DEFNAM:: ; Default name string for library files
52 41 4D 2E 000009BF'010E0000' 09B7 215 .ASCID /.MAR/
09C3 216 ;
09C3 217 .ALIGN LONG
09C4 218 ;
09C4 219 ; OUTPUT BUFFERS
09C4 220 ;
09C4 221 MAC$AB_OBJBUF::
00000B90 09C4 222 .BLKB OBJ$K_BUFSIZ-WARN_LIMIT ;BUFFER FOR WRITING OBJECT FILE
00000BC4 0B90 223 MAC$AB_OBJWRN::
00000BC6 0BC4 224 .BLKB WARN_LIMIT ;WARNING LIMIT
0BC6 225 .BLKB 2 ;PADDING
0BC6 226 ;
0BC6 227 ; DATA STRUCTURES NEEDED FOR LIB$FIND_FILE
0BC6 228 ;
0BC6 229 MAC$GL_STV_ADDR::
00000000 0BC6 230 .LONG 0 ;ADDRESS OF POSSIBLE RMS ERROR
0BCA 231
0BCA 232 MAC$GC_FFLAGS::
00000003 0BCA 233 .LONG 3 ;PERFORM MULTIPLE SEARCHLISTS
0BCE 234 ; AND "NO" WILDCARDING
0BCE 235
0BCE 236 MAC$GL_CONTEXT:: ;LISTING CONTEXT
00000000 0BCE 237 .LONG 0 ; FOR LIB$FIND_FILE(initialized)
0BD2 238
0BD2 239 MAC$GL_RESULT:: ;DESCR FOR STORAGE OF RESULTING FILENAME
0000 0BD2 240 .WORD 0 ;FOR LISTING AND OBJECT FILES
00' 0BD4 241 .BYTE DSC$K_DTYPE-T
00' 0BD5 242 .BYTE DSC$K_CLASS-S
00000BDA' 0BD6 243 .ADDRESS MAC$GC_RESADDR ;ADDRESS OF RESULTING FILENAME
```


MAC\$IODAT
V04-000

N 2

16-SEP-1984 01:53:09 VAX/VMS Macro V04-00
5-SEP-1984 01:48:40 [MACRO.SRC]IODAT.MAR;1

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DECLARATIONS

00000CD9 OBDA 244 MAC\$GL_RESADDR::
OBDA 245 .BLKB
OCD9 246
OCD9 247
OCD9 248 .END

255

;

MAC\$IODAT
Symbol table

B 3

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5-SEP-1984 01:48:40 [MACRO.SRC]IODAT.MAR;1

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\$\$TAB	= 00000824	R	02
\$\$TABEND	= 00000884	R	02
\$\$TMP	= 00000000		
\$\$TMPX	= 0000000E	R	03
\$\$TMPX1	= 00000004		
ARG\$K_SIZE	= 000003E8		
AUD\$K_SIZE	= 00000010		
BLNK	= 00000020		
CHR\$M_COMMA CR	= 00000020		
CHR\$M_ILL CHR	= 00000040		
CHR\$M_NUM_BER	= 00000010		
CHR\$M_SPA_MSK	= 00000001		
CHR\$M_SYM_CH1	= 00000008		
CHR\$M_SYM_CHR	= 00000004		
CHR\$M_SYM_DLM	= 00000002		
CHR\$V_COMMA CR	= 00000005		
CHR\$V_CVTLWC	= 00000061		
CHR\$V_ILL CHR	= 00000006		
CHR\$V_NOCVT	= 0000007F		
CHR\$V_NUM_BER	= 00000004		
CHR\$V_SPA_MSK	= 00000000		
CHR\$V_SYM_CH1	= 00000003		
CHR\$V_SYM_CHR	= 00000002		
CHR\$V_SYM_DLM	= 00000001		
CR	= 0000000D		
DSC\$K_CLASS_S	*****	X	02
DSC\$K_DTYPE_T	*****	X	02
FAB\$B_DNS	= 00000035		
FAB\$B_FNS	= 00000034		
FAB\$C_BID	= 00000003		
FAB\$C_BLN	= 00000050		
FAB\$C_SEQ	= 00000000		
FAB\$C_VAR	= 00000002		
FAB\$S_ALQ	= 00000010		
FAB\$S_DNA	= 00000030		
FAB\$S_FNA	= 0000002C		
FAB\$S_FOP	= 00000004		
FAB\$V_CHAN_MODE	= 00000002		
FAB\$V_CR	= 00000001		
FAB\$V_FILE_MODE	= 00000004		
FAB\$V_LNM_MODE	= 00000000		
FAB\$V_OFFP	= 0000001D		
FAB\$V_PUT	= 00000000		
FAB\$V_TEF	= 0000001C		
FAB\$W_GBC	= 00000048		
FF	= 0000000C		
HASHSZ	= 0000007F		
HYPHEN	= 0000002D		
INP\$K_BUFSIZ	= 000003E8		
INT\$K_BUFSIZ	= 000013F4		
INT\$K_BUFWRN	= 00001390		
LST\$K_BUFSIZ	= 00000086		
LST\$K_L P PAGE	= 0000003C		
LST\$K_TITLE_SIZ	= 00000028		
MAC\$AB_LINEBF	*****	X	02
MAC\$AB_LST_END	*****	X	02
MAC\$AB_OBJBUF	000009C4	RG	02

MAC\$AB_OBJWRN	00000B90	RG	02
MAC\$GB_INPNAMLEN	00000263	RG	02
MAC\$GC_FFLAGS	00000BCA	RG	02
MAC\$GL_CONTEXT	00000BCE	RG	02
MAC\$GL_RESADDR	00000BDA	RG	02
MAC\$GL_RESULT	00000BD2	RG	02
MAC\$GL_STV_ADDR	00000BC6	RG	02
MAC\$INPUT_RAB	00000094	RG	02
MAC\$INPUT_RLFNM	00000104	RG	02
MAC\$INPUT_XAB	000000D8	RG	02
MAC\$INP_DEFNAM	000009B7	RG	02
MAC\$INP_NAM_BUF	00000164	RG	02
MAC\$LISTPT_RLFNM	00000264	RG	02
MAC\$LIST_FAB	00000718	RG	02
MAC\$LIST_NAM	000007AC	RG	02
MAC\$LIST_RAB	00000768	RG	02
MAC\$NIS_NAM_BUF	00000424	RG	02
MAC\$MLB_DEFNAM	000009AB	RG	02
MAC\$OBJECT_FAB	00000624	RG	02
MAC\$OBJECT_NAM	000006B8	RG	02
MAC\$OBJECT_RAB	00000674	RG	02
MAC\$OBJPT_RLFNM	000002C4	RG	02
MAC\$OBJ_NAM_BUF	00000324	RG	02
MAC\$RES_NAM_BUF	00000524	RG	02
MAC\$SYSCIB_DFN	00000993	RG	02
MAC\$SYSLIB_FNM	00000984	RG	02
MAC\$SYSLIB_MLF	0000080C	RG	02
MAC\$TERM_FAB	00000000	RG	02
MAC\$TERM_RAB	00000050	RG	02
MAC SUBSYS	= 0000007D		
MLF\$K_BLKSIK	= 00000177		
MLF\$K_RSFNLN	= 000000FF		
MLF\$S_CTINDEX	00000014		
MLF\$S_MCDEF	00000008		
MLF\$S_QLINK	00000000		
MLF\$Q_FNAMDS	0000000C		
MLF\$T_FNAM	00000078		
MLF\$X_NAMBLK	00000018		
NAM\$B_ESS	= 0000000A		
NAM\$B_NOP	= 00000008		
NAM\$B_RSS	= 00000002		
NAM\$C_BID	= 00000002		
NAM\$C_BLN	= 00000060		
NAM\$C_MAXRSS	= 000000FF		
NAM\$S_ESA	= 0000000C		
NAM\$S_RSA	= 00000004		
OBJ\$K_BUFSIZ	= 00000200		
RAB\$B_RAC	= 0000001E		
RAB\$C_BID	= 00000001		
RAB\$C_BLN	= 00000044		
RAB\$C_SEQ	= 00000000		
RAB\$S_CTX	= 00000018		
RAB\$S_RAP	= 00000004		
RAB\$V_RAH	= 00000009		
RAB\$V_WBH	= 0000000A		
RDX\$V_BINARY	= 00000000		
RDX\$V_DECIMAL	= 00000002		

MAC
V04

MAC\$IODAT
Symbol table

C 3

16-SEP-1984 01:53:09 VAX/VMS Macro V04-00
5-SEP-1984 01:48:40 LMACRO.SRC IODAT.MAR;1

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MAC
V04

RDX\$V_DOUBLE = 00000005
RDX\$V_FLOAT = 00000004
RDX\$V_GFLOAT = 00000006
RDX\$V_HEX = 00000003
RDX\$V_HFLOAT = 00000007
RDX\$V_OCTAL = 00000001
REG\$_PC = 0000000F
SEMI = 0000003B
STBSK_PG_MISS = 0000000A
SYMSK_MAXLEN = 0000001F
SYMSK_TWOCOL = 00000010
TAB = 00000009
WARN_LIMIT = 00000034
XABSC_DAT = 00000012
XABSC_DATLEN = 0000002C
XABSL_NXT = 00000004
XABSQ_EDT = 0000001C

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$AB\$\$	00000177 (375.)	01 (1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
MAC\$IODAT_DATA	00000CD9 (3289.)	02 (2.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC LONG
\$RMSNAM	00000012 (18.)	03 (3.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	41	00:00:00.06	00:00:02.44
Command processing	146	00:00:00.39	00:00:04.70
Pass 1	238	00:00:05.05	00:00:25.73
Symbol table sort	0	00:00:00.47	00:00:01.68
Pass 2	60	00:00:00.93	00:00:04.07
Symbol table output	16	00:00:00.08	00:00:00.61
Psect synopsis output	3	00:00:00.02	00:00:00.53
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	506	00:00:07.00	00:00:39.77

The working set limit was 1350 pages.

35584 bytes (70 pages) of virtual memory were used to buffer the intermediate code.

There were 30 pages of symbol table space allocated to hold 588 non-local and 0 local symbols.

248 source lines were read in Pass 1, producing 18 object records in Pass 2.

24 pages of virtual memory were used to define 19 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name

Macros defined

_ \$255\$DUA28:[MACRO.OBJ]MACRO.MLB;1
- \$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

2
16
18

827 GETS were required to define 18 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:IODAT/OBJ=OBJ\$:IODAT MSRC\$:IODAT/UPDATE=(ENH\$:IODAT)+LIB\$:MACRO/LIB

0226 AH-BT13A-SE
VAX/VMS V4.0

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